

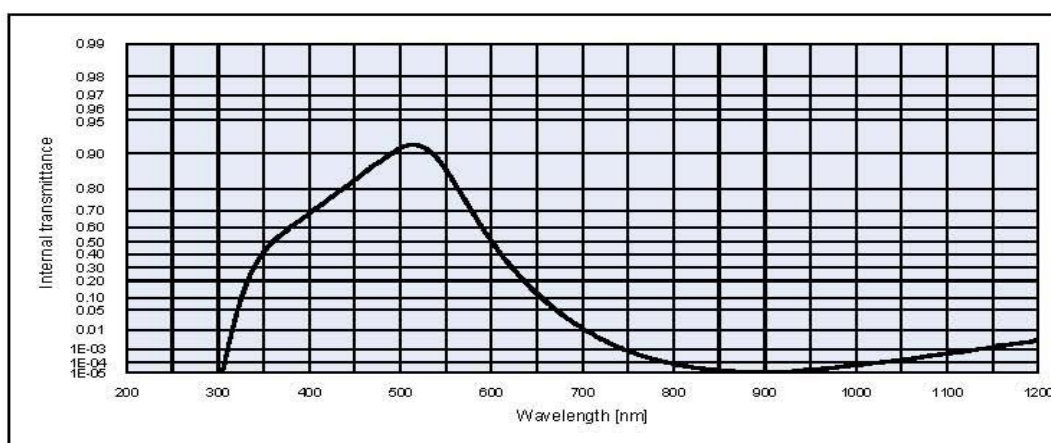
Data Sheet

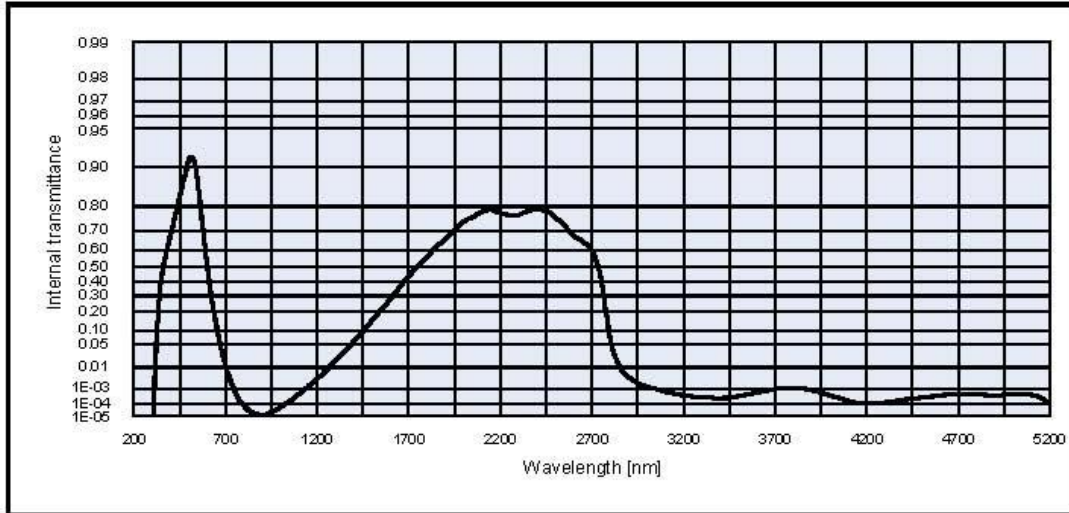


BG18		Density		Notes	
		ρ [g/cm ³]	2.68	Ionically colored glass	
Reflection factor		Bubble content		Band pass filter / short pass filter	
P_d	0.91	Bubble class	2		
Reference thickness		Chemical resistance			
d [mm]	1	FR class	0		
Spectral values guaranteed		SR class	2.0		
τ_i (350 nm)	≥ 0.30	AR class	2.0		
τ_i (405 nm)	≥ 0.65	Transformation temperature			
τ_i (514 nm)	≥ 0.88	T _g [°C]		482	
τ_i (633 nm)	≤ 0.25	Thermal expansion			
τ_i (694 nm)	≤ 0.03	$\alpha_{300-700^\circ\text{C}}$ [10 ⁻⁶ /K]	7.4		
τ_i (1060 nm)	$\leq 5 \cdot 10^{-4}$	$\alpha_{20-300^\circ\text{C}}$ [10 ⁻⁶ /K]	8.8		
Refractive index n		Temperature coefficient			
λ [nm]	Element	T _k [nm/°C]			
404.7	Hg				
587.6	He				

All data without tolerances are to be understood to be reference values.
 Guaranteed values are only those values listed in the section "Spectral values guaranteed".

Colorimetric evaluation												
Illuminant	A (Planck T = 2856 K)			Illuminant	Planck T = 3200 K			Illuminant	D65 (T _c = 6504 K)			
	d [mm]	1	2		3	d [mm]	1		2	3	d [mm]	1
x		0.361	0.309	0.275	x	0.340	0.292	0.260	x	0.255	0.225	0.206
y		0.441	0.459	0.472	y	0.426	0.441	0.451	y	0.335	0.340	0.346
Y		61	46	37	Y	62	48	38	Y	68	54	45
λ_d [nm]		502	501	501	λ_d [nm]	500	500	500	λ_d [nm]	493	493	493
P_s		0.20	0.31	0.39	P_s	0.20	0.32	0.39	P_s	0.21	0.31	0.38





Internal transmittance τ_i at reference thickness d [mm] = 1
 The internal transmittance values, tabulated and graphically represented, are reference values only

λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i
200	< 1.0E-05	500	9.1E-01	800	7.6E-05	1100	5.0E-04	2200	7.8E-01	3700	1.0E-03
210	< 1.0E-05	510	9.2E-01	810	5.2E-05	1110	6.0E-04	2250	7.7E-01	3750	1.1E-03
220	< 1.0E-05	520	9.2E-01	820	3.8E-05	1120	7.1E-04	2300	7.7E-01	3800	1.2E-03
230	< 1.0E-05	530	9.1E-01	830	2.9E-05	1130	8.6E-04	2350	7.8E-01	3850	1.1E-03
240	< 1.0E-05	540	8.9E-01	840	2.3E-05	1140	1.1E-03	2400	7.9E-01	3900	8.6E-04
250	< 1.0E-05	550	8.8E-01	850	1.9E-05	1150	1.3E-03	2450	7.9E-01	3950	5.8E-04
260	< 1.0E-05	560	8.2E-01	860	1.7E-05	1160	1.6E-03	2500	7.6E-01	4000	4.0E-04
270	< 1.0E-05	570	7.8E-01	870	1.5E-05	1170	1.9E-03	2550	7.3E-01	4050	2.7E-04
280	< 1.0E-05	580	6.9E-01	880	1.3E-05	1180	2.3E-03	2600	6.8E-01	4100	1.8E-04
290	< 1.0E-05	590	6.0E-01	890	1.2E-05	1190	2.6E-03	2650	6.5E-01	4150	1.3E-04
300	< 1.0E-05	600	5.1E-01	900	1.2E-05	1200	3.3E-03	2700	6.0E-01	4200	1.1E-04
310	5.6E-04	610	4.1E-01	910	1.2E-05	1250	7.5E-03	2750	4.3E-01	4250	1.1E-04
320	3.3E-02	620	3.2E-01	920	1.3E-05	1300	1.8E-02	2800	7.0E-02	4300	1.3E-04
330	1.6E-01	630	2.4E-01	930	1.5E-05	1350	3.3E-02	2850	1.1E-02	4350	1.6E-04
340	3.1E-01	640	1.8E-01	940	1.8E-05	1400	6.0E-02	2900	4.0E-03	4400	2.0E-04
350	4.2E-01	650	1.2E-01	950	2.1E-05	1450	9.6E-02	2950	2.1E-03	4450	2.6E-04
360	5.0E-01	660	8.2E-02	960	2.6E-05	1500	1.5E-01	3000	1.3E-03	4500	3.0E-04
370	5.5E-01	670	5.3E-02	970	3.0E-05	1550	2.1E-01	3050	1.0E-03	4550	3.5E-04
380	6.0E-01	680	3.3E-02	980	3.7E-05	1600	2.8E-01	3100	7.0E-04	4600	4.0E-04
390	6.4E-01	690	2.0E-02	990	4.8E-05	1650	3.6E-01	3150	5.2E-04	4650	4.7E-04
400	6.8E-01	700	1.2E-02	1000	5.8E-05	1700	4.4E-01	3200	4.0E-04	4700	5.1E-04
410	7.2E-01	710	7.0E-03	1010	7.1E-05	1750	5.0E-01	3250	3.4E-04	4750	5.0E-04
420	7.5E-01	720	4.0E-03	1020	8.8E-05	1800	5.6E-01	3300	3.1E-04	4800	4.7E-04
430	7.8E-01	730	2.3E-03	1030	1.1E-04	1850	6.2E-01	3350	2.9E-04	4850	4.3E-04
440	8.1E-01	740	1.3E-03	1040	1.3E-04	1900	6.6E-01	3400	2.8E-04	4900	4.2E-04
450	8.3E-01	750	7.8E-04	1050	1.6E-04	1950	7.1E-01	3450	3.0E-04	4950	4.5E-04
460	8.5E-01	760	4.6E-04	1060	2.0E-04	2000	7.4E-01	3500	3.6E-04	5000	5.0E-04
470	8.7E-01	770	2.8E-04	1070	2.6E-04	2050	7.6E-01	3550	4.6E-04	5050	5.0E-04
480	8.9E-01	780	1.7E-04	1080	3.3E-04	2100	7.8E-01	3600	6.0E-04	5100	4.2E-04
490	9.0E-01	790	1.1E-04	1090	4.1E-04	2150	7.9E-01	3650	8.2E-04	5150	2.9E-04

every attempt has been made to verify the source of the information, no responsibility is accepted for accuracy of data.

While

